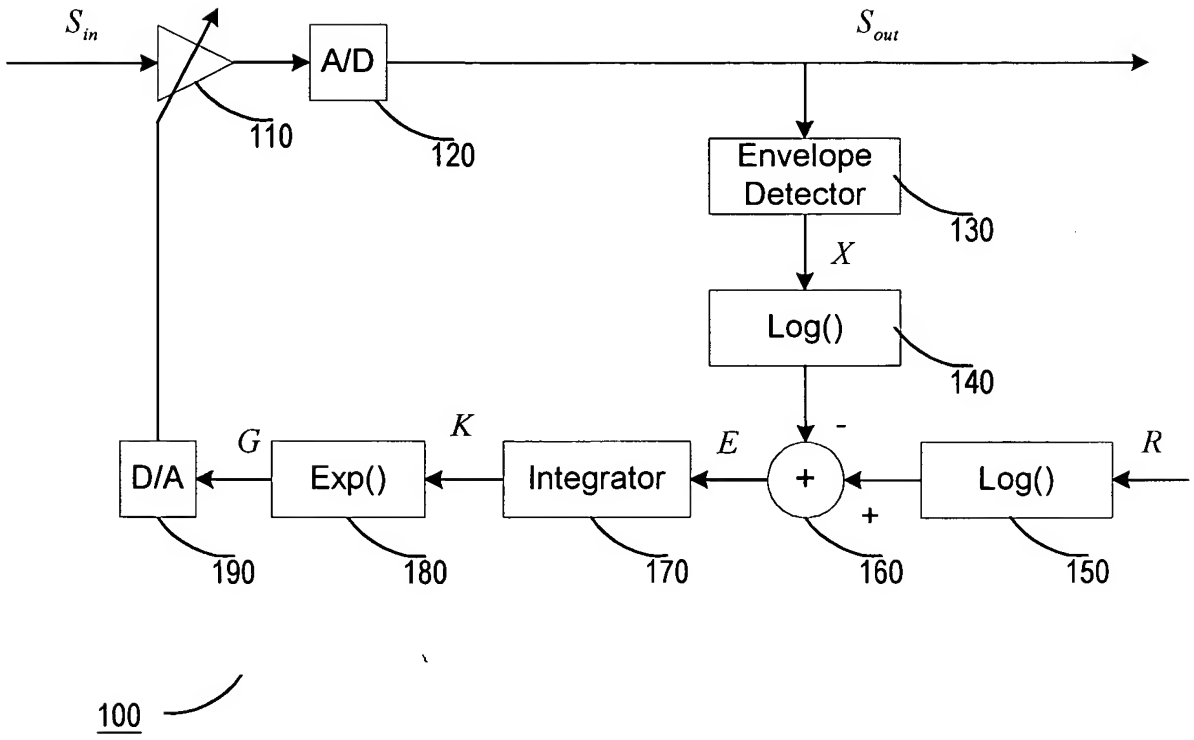
S_{in}
A/D
S_{out}
110
120
Envelope Detector
130
X
Log()
140
G
K
E
-
R
D/A
Exp()
Integrator
+
Log()
+
190
180
170
160
150
100

FIG. 1

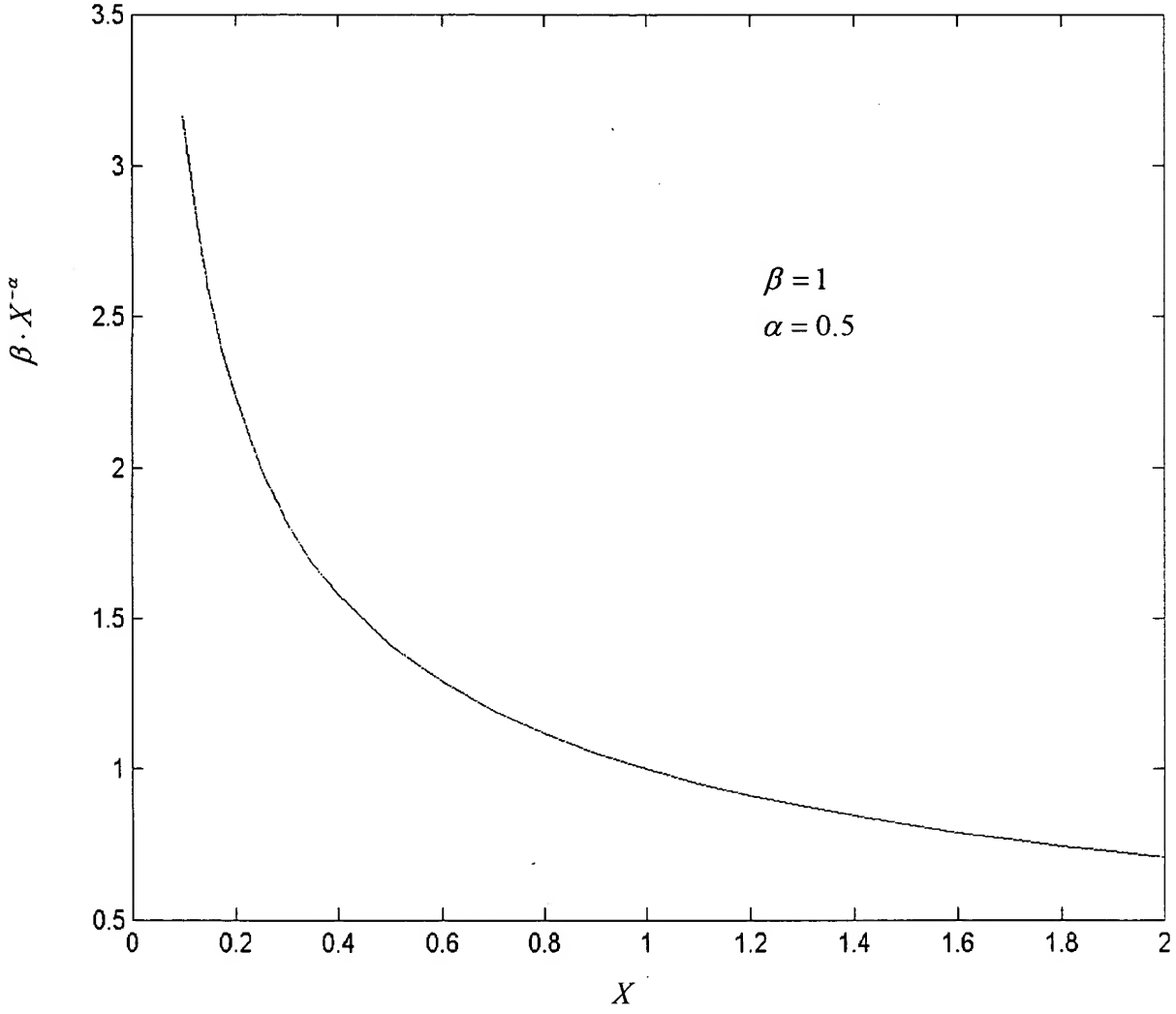
3.5
3
2.5
2
1.5
1
0.5
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
$\beta \cdot X^{-\alpha}$
X
$\beta = 1$
$\alpha = 0.5$

FIG. 2

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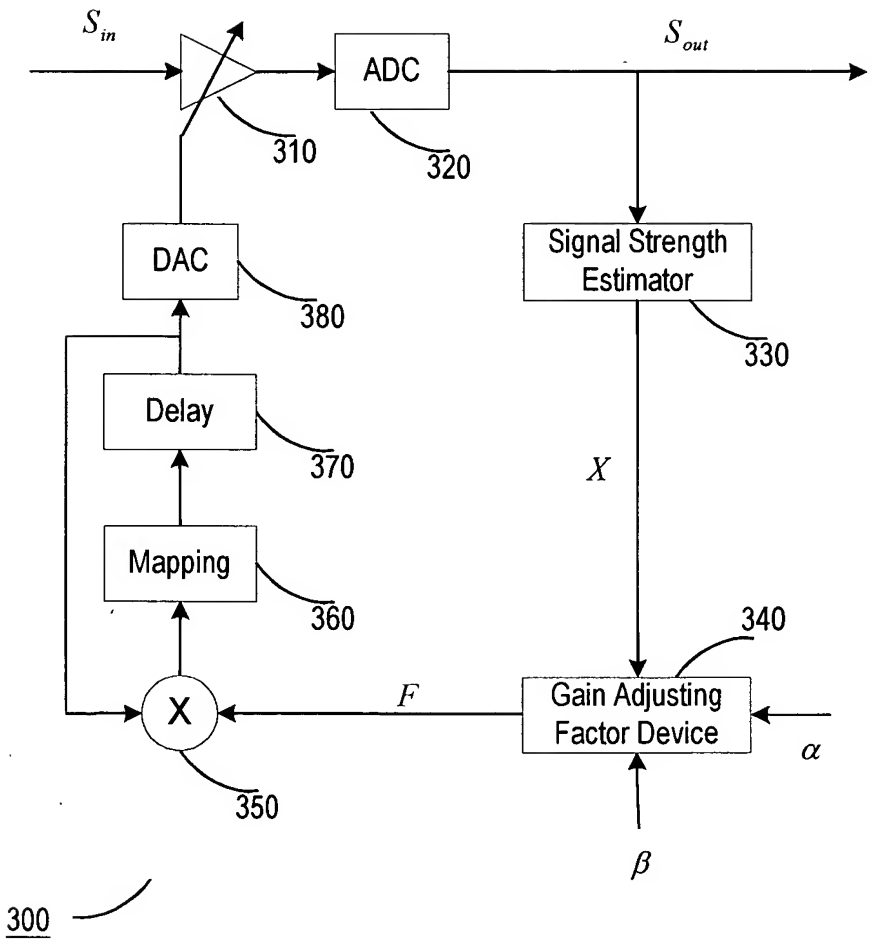

FIG. 3

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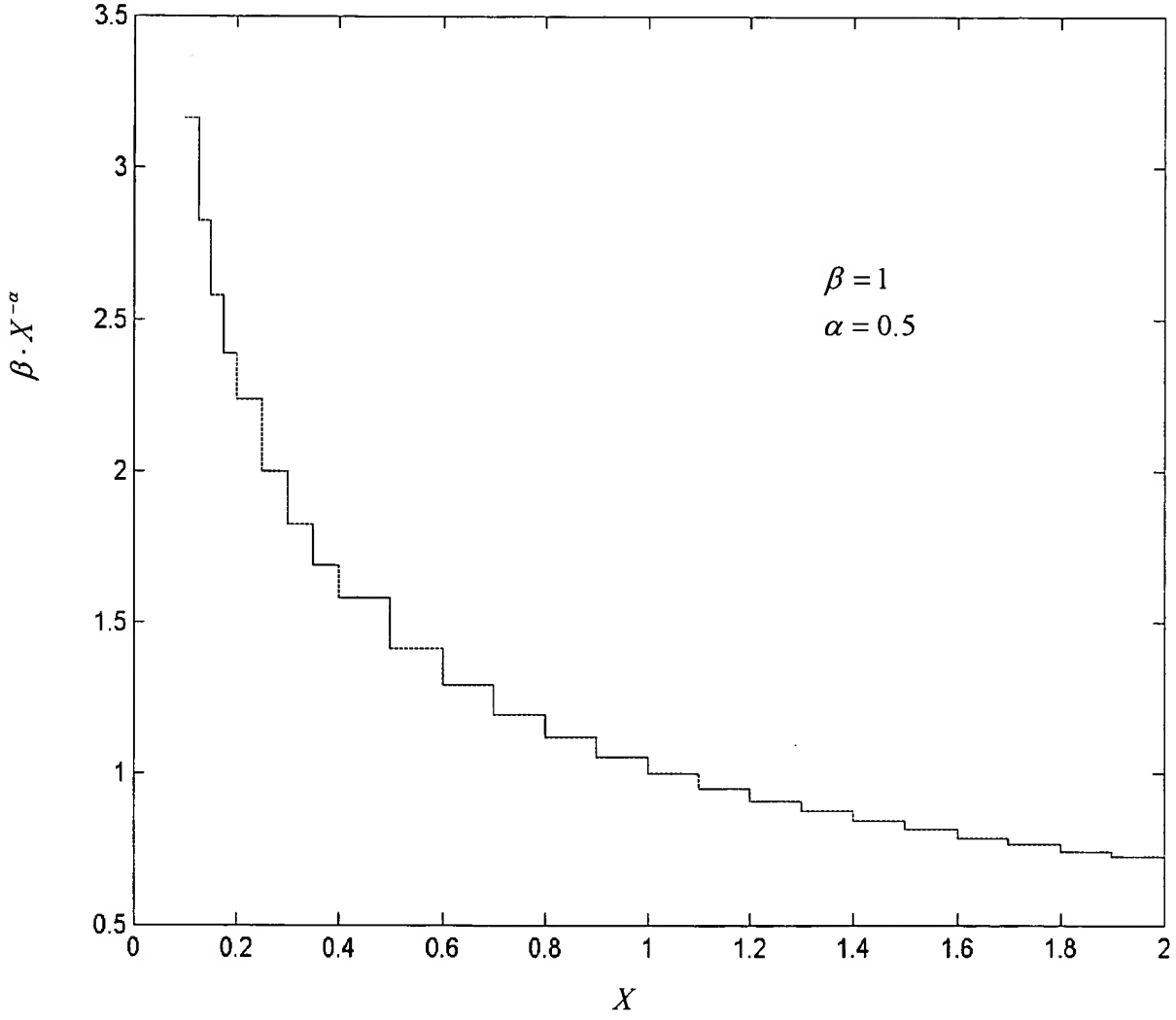

FIG. 4

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$$\text{Reference Signal Strengths} = \begin{bmatrix} 0.1000 \\ 0.1250 \\ 0.1500 \\ 0.1750 \\ 0.2000 \\ 0.2250 \\ 0.2500 \\ 0.2750 \\ 0.3000 \\ 0.4000 \\ 0.5000 \\ 0.6000 \\ 0.7000 \\ 0.8000 \\ 0.9000 \\ 1.0000 \\ 1.1000 \\ 1.2000 \\ 1.3000 \\ 1.4000 \\ 1.5000 \\ 1.6000 \\ 1.7000 \\ 1.8000 \\ 1.9000 \\ 2.0000 \end{bmatrix} \quad \text{Reference Gain Adjusting Factors} = \begin{bmatrix} 3.1623 \\ 2.8284 \\ 2.5820 \\ 2.3905 \\ 2.2361 \\ 2.1082 \\ 2.0000 \\ 1.9069 \\ 1.8257 \\ 1.5811 \\ 1.4142 \\ 1.2910 \\ 1.1952 \\ 1.1180 \\ 1.0541 \\ 1.0000 \\ 0.9535 \\ 0.9129 \\ 0.8771 \\ 0.8452 \\ 0.8165 \\ 0.7906 \\ 0.7670 \\ 0.7454 \\ 0.7255 \\ 0.7071 \end{bmatrix}$$

FIG. 5

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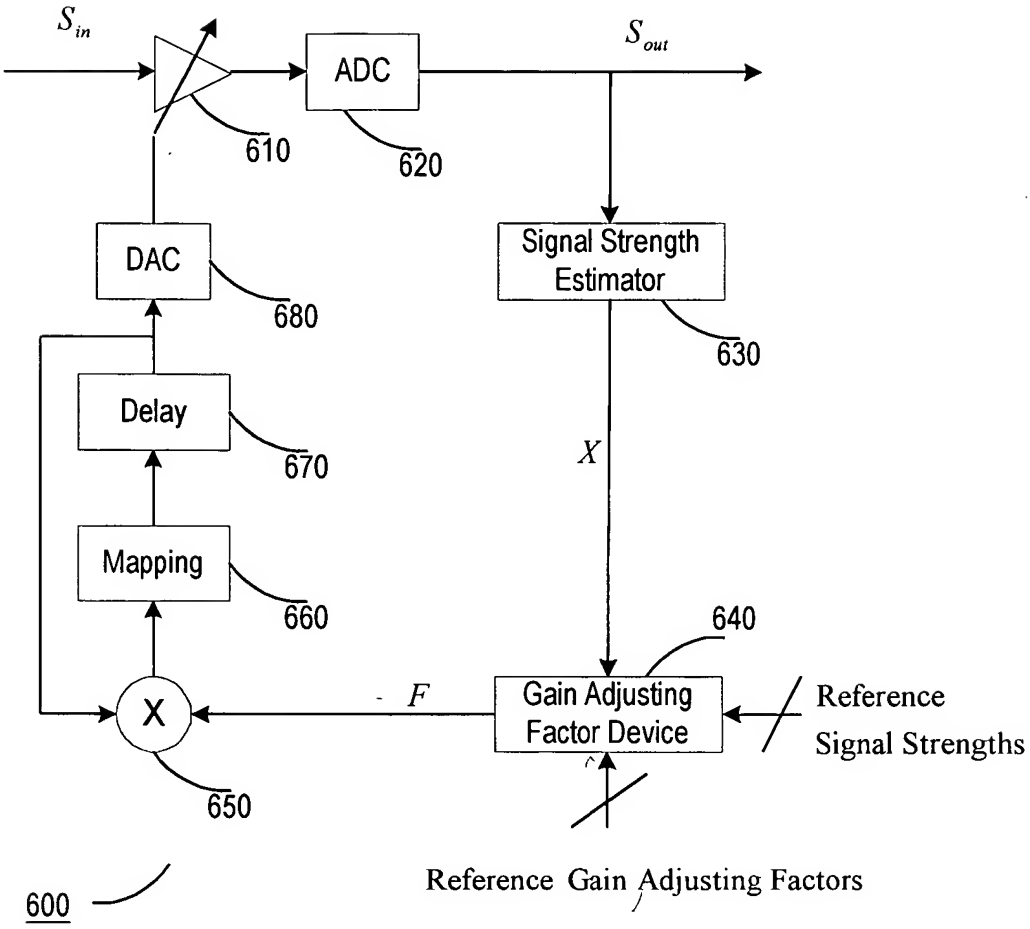

FIG. 6

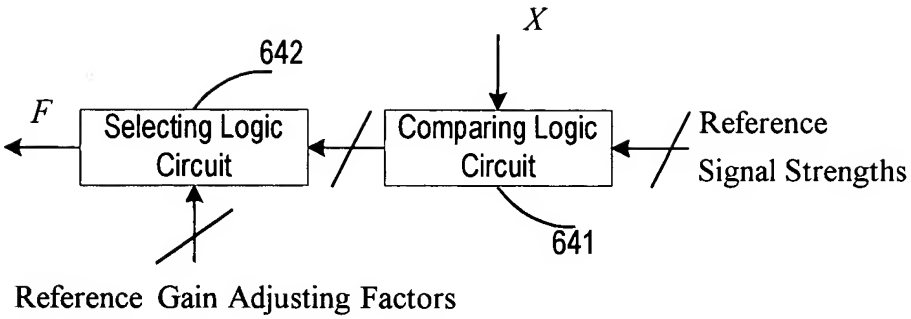

FIG. 7

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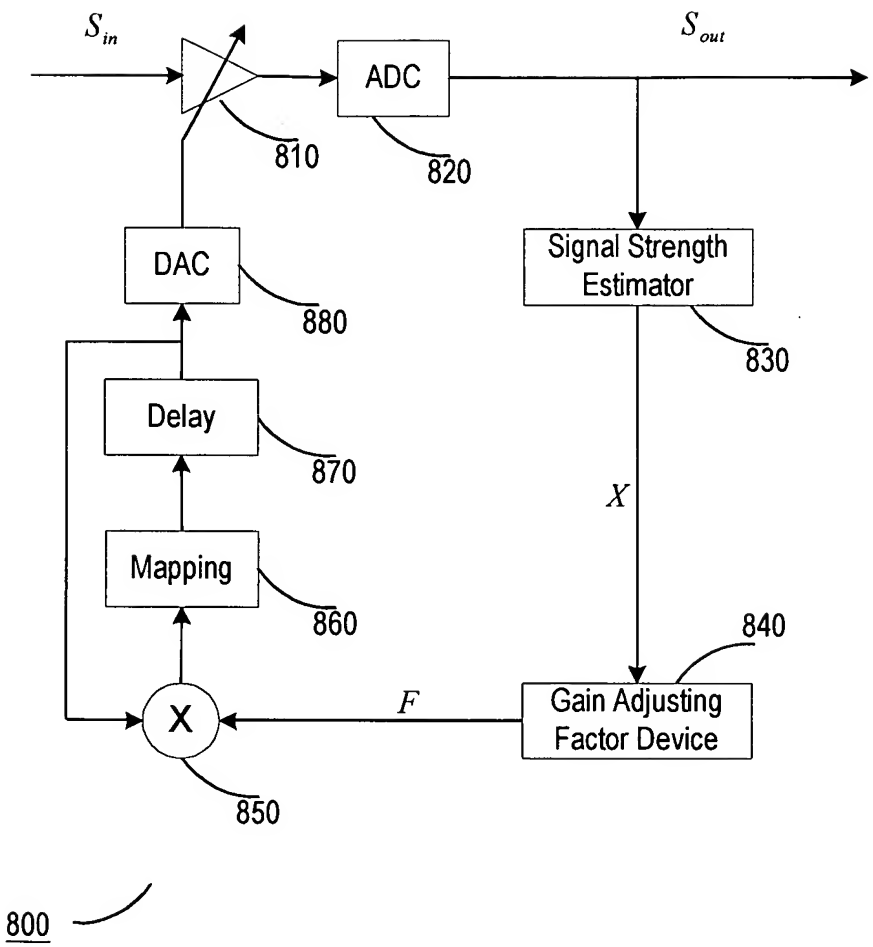
S_{in}
S_{out}
ADC
810
820
DAC
880
Signal Strength Estimator
830
Delay
870
X
Mapping
860
840
X
F
Gain Adjusting Factor Device
850
800

FIG. 8

Document: 1p0504-1p0504

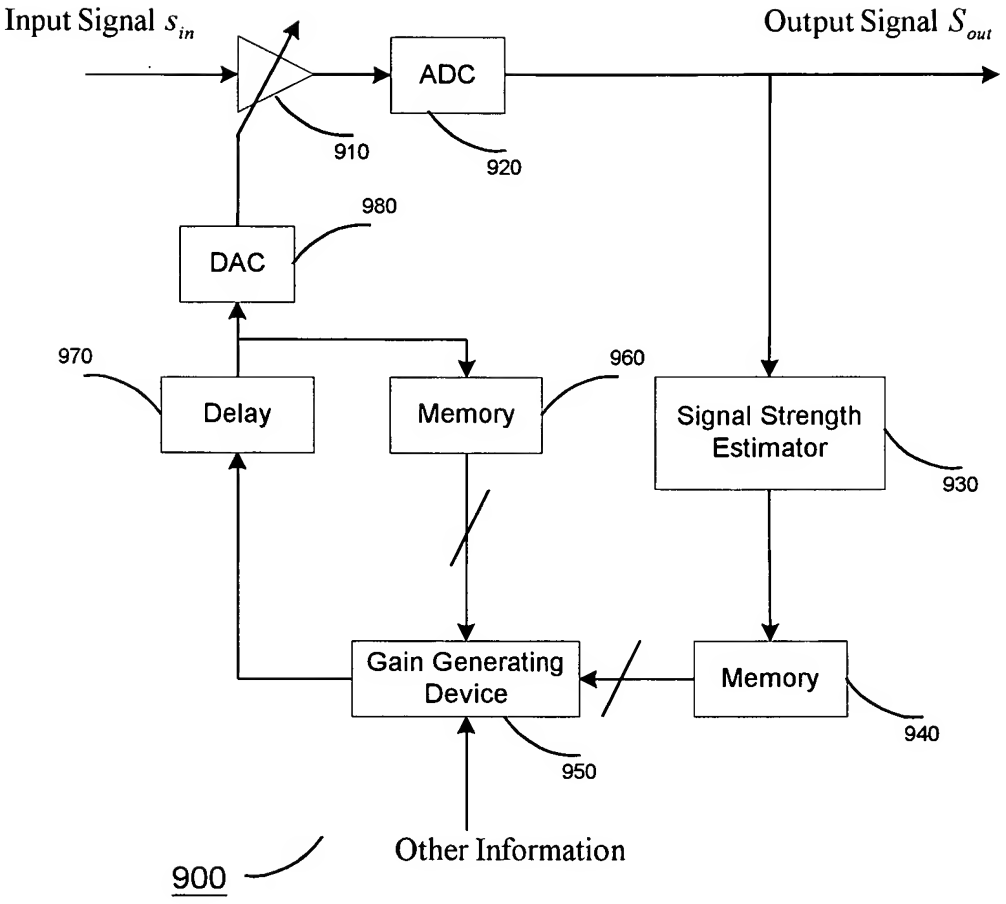

FIG. 9